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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER LU 6132 (US) |
| INTERNATIONAL APPLICATION NO. PCT/EP2004/010375 | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/5/2816 |
| INTERNATIONAL FILING DATE 16 September 2004 | | PRIORITY DATE CLAIMED 24 Sept 2003; 12 Dec 2003 |
| TITLE OF INVENTION LOOP REACTOR WITH VARYING DIAMETER FOR OLEFIN POLYMERIZATION | | |
| APPLICANT(S) FOR DO/EO/US BASSELL POLYOLEFINE GmbH | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | |
| 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | |
| 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. | | |
| 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). | | |
| 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). | | |
| 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). | | |
| 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. | | |
| 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). | | |
| 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). | | |
| 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | |
| 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | |
| 13. <input checked="" type="checkbox"/> A preliminary amendment. | | |
| 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. | | |
| 15. <input type="checkbox"/> A substitute specification. | | |
| 16. <input type="checkbox"/> A power of attorney and/or change of address letter. | | |
| 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. | | |
| 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). | | |
| 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | |
| 20. <input checked="" type="checkbox"/> Other items or information: Receipt acknowledgment card Copy of Internat'l Appln Express mail certificate | | |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/572816 | | INTERNATIONAL APPLICATION NO. PCT/EP2004/010375 | | ATTORNEY'S DOCKET NUMBER LU 6132 (US) | |
| The following fees have been submitted | | | | CALCULATIONS | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> Basic national fee..... | | | | \$ 300 | |
| 22. <input checked="" type="checkbox"/> Examination fee If international preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100 All other situations..... \$200 | | | | \$ 200 | |
| 23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared and provided to the Office..... \$400 All other situations..... \$500 | | | | \$ 400 | |
| TOTAL OF 21, 22 and 23 = | | | | \$ 900 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | |
| - 100 = | /50 = | | x \$250 | \$ 0 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). | | | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | \$ | |
| Total claims | 10 - 20 = | 0 | x \$ 50 | \$ 0 | |
| Independent claims | 2 - 3 = | 0 | x \$200 | \$ 0 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360 | \$ | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 900 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | |
| SUBTOTAL = | | | | \$ 900 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | \$ 0 | |
| TOTAL NATIONAL FEE = | | | | \$ 900 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | \$ 40 | |
| TOTAL FEES ENCLOSED = | | | | \$ 940 | |
| | | | | Amount to be refunded: | \$ 0 |
| | | | | Amount to be charged: | \$ 940 |
| <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>08-2336</u> in the amount of \$ <u>940.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>08-2336</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | | |
| SEND ALL CORRESPONDENCE TO: | | | | | |
| 34872 William R. Reid Basell USA Inc. 912 Appleton Road Elkton MD 21921 ph: 410-996-1783 fax: 410-996-1560 | | | | | |
|  SIGNATURE William R. Reid NAME 47,894 REGISTRATION NUMBER | | | | | |

10/572816
MAR 20 2006

EXPRESS MAILING CERTIFICATE

This certifies that the attached **Transmittal Letter, PTO Form 1390 (in duplicate), Transmittal Letter to the United States Designated/Elected Office Concerning a Filing Under 35 USC 371, and Application Data Sheet, Preliminary Amendment, Copy of PCT Request Declaration, Copy of Assignment, Assignment Cover Sheet, Specification (13 pages), 10 Claims (2 pages), Abstract (1 page) and Drawings (1 sheet)** for the patent application of **Shahram Mihan et al. for LOOP REACTOR WITH VARYING DIAMETER FOR OLEFIN POLYMERIZATION** (our ref: LU 6132 (US)) is being mailed by "Express Mail Post Office to Addressee" service in an envelope addressed:

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Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

and deposited on **March 22, 2006** as "Express Mail" in the United States Postal Service, the number of the "Express Mail" mailing label being **EQ024623711US**.

Frank Sackmann

Typed Name of Person Mailing Paper or Fee

Signature of Person

10/572816

legal/PTO trans ltr

LU 6132 (US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Shahram Miham et al.

Serial No. **NOT ASSIGNED YET**

Filed: **March 22, 2006**

For **LOOP REACTOR WITH VARYING DIAMETER
FOR OLEFIN POLYMERIZATION**

IAP20060322PTO 22 MAR 2006

Mail Stop PCT
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

TRANSMITTAL LETTER

Submitted herewith for filing in the U.S. Patent and Trademark Office are the following:

- ☒ Postcard
- ☒ Express Mailing Certificate
- ☒ Transmittal Letter
- ☒ Form **PTO1390 (Transmittal Letter to the US Designated Office)** (in duplicate)
- ☒ Application Data Sheet (**3** pages)
- ☒ Preliminary Amendment (**4** pages)
- ☒ Attachment A (MARKED-UP COPY OF SPEC) (**16** pages, **1** drawing)
- ☒ Attachment B (CLEAN COPY OF SUB SPEC) (**16** pages, **1** drawing)
- ☒ Copy of PCT Request Declaration (**2** pages)
- ☐ Copy of Declaration (____ pages)
- ☒ Copy of International Application - **17** page(s) consisting of: **13** page(s) Textual Specification
2 page(s) of **10** Claims
1 page containing the Abstract
1 sheet of Drawings
- ☒ Assignment Cover Sheet
- ☒ Copy of Assignment (**2** pages)
- ☐ Response (____ pages)
- ☐ Other (_____)

Respectfully submitted,

SHAHRAM MIHAM ET AL.

Basell USA Inc.
912 Appleton Road
Elkton, Maryland 21921
Date: **March 22, 2006**

By *William R. Reid*
William R. Reid
Registration No. **47,894**
Attorney for Applicant